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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/923,075	08/06/2001	Lynn Henry Wheeler	10399-34383	1892
26702 7590 02/28/2008 MORRIS, MANNING & MARTIN LLP 1600 ATLANTA FINANCIAL CENTER 3343 PEACHTREE ROAD NE ATLANTA, GA 30326				
EXAMINER PYZOCHA, MICHAEL J				
ART UNIT 2137		PAPER NUMBER		
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

**Application No.**

09/923,075

**Applicant(s)**

WHEELER ET AL.

**Examiner**

MICHAEL PYZOCHA

**Art Unit**

2137

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 11 January 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-37 is/are pending in the application.
- 4a) Of the above claim(s) 1-11 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 12-37 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
- 4) ☐ Interview Summary (PTO-413)
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

1. Claims 1-37 are pending. Claims 1-11 have been withdrawn from consideration.
2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 01/11/2008 has been entered.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 12, 14-17, 21, 23-26, and 30-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fischer (US 5422953) in view of McClain et al. (US 6049874).

As per claims 12 and 21, Fischer discloses a method and system for providing a random number for utilization in a computer program application that requires the random number, the method comprising the steps of: creating a private key of a public/private key pair within a secure device (see figure 2 numeral 24 and column 3 lines 44-46; column 4 lines 29-41; and column 7 lines 56-59); upon receipt of message data at the secure device originating a digital signature for the message data, the originating comprising (see column 7 lines 43-50): calculating a hash value for the message data; encrypting the hash value using the private key (see column 7 lines 51-62); providing the results of the encrypting step as a generated digital signature (see column 7 lines 51-62) providing to the computer program application external to the device the generated digital signature constitutes a random number for use by the computer program application (see 7 lines 63-67).

Fischer fails to explicitly disclose the use of a digital signature as a random number for secure electronic communications.

However, McClain et al. teaches using a digital signature as a random number for secure electronic communications (see column 12 lines 28-57).

At the time of the invention it would have been obvious to a person of ordinary skill in the art to use the digital signatures of Fischer as a random number for secure electronic communications.

Motivation to do so would have been to provide a unique session specific session key for encryption (see McClain et al. column 12 lines 28-29).

As per claims 14 and 23, the modified Fischer and McClain et al. system discloses using the generated digital signature to generate a session key for secure electronic communications (see McClain et al. column 12 lines 28-57).

As per claims 15 and 24, the modified Fischer and McClain et al. system discloses the digital signature is generated within a computer chip within the device (see figure 1 and column 3 lines 25-38).

As per claims 16 and 25, the modified Fischer and McClain et al. system discloses the computer chip itself includes a random number generator (see figure 1 numeral 10 and column 4 lines 1-15).

As per claims 17 and 26, the modified Fischer and McClain et al. system discloses the digital signature is generated within the computer ship using the private key and a random

number obtained from the random number generator (see column 4 lines 1-15).

As per claims 30 and 34, the modified Fischer and McClain et al. system discloses the computer program application is a security protocol (see McClain et al. column 12 lines 28-57).

As per claims 31, 32, 35, and 36, the modified Fischer and McClain et al. system fails to explicitly disclose the security protocol is SSL and PGP.

However, Official Notice is taken that at the time of the invention one of ordinary skill in the art would recognize to use the random numbers of the modified Fischer and McClain et al. system in SSL and PGP. Motivation to do so is that these are two well-known security protocols that use random numbers.

As per claims 33 and 37, the modified Fischer and McClain et al. system discloses the computer program application is a digital signature algorithm for generating a digital signature (see Fischer column 7 lines 51-62).

5. Claims 13 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over the modified Fischer and McClain et al. system as applied to claims 12 and 21 above, in view of Binding et al. (US 6775772).

As per claims 13 and 22, the modified Fischer and McClain et al. system fails to disclose the use of the digital signature to distinguish and prevent a replay attack.

However, Binding et al. teaches the use of a digital signature on a nonce to distinguish and prevent a replay attack (see column 9 line 64 through column 10 line 11).

At the time of the invention it would have been obvious to a person of ordinary skill in the art to use the digital signature as a safeguard against a replay attack.

Motivation to do so would have been to verify the identity of each party in the communication.

6. Claims 18 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over the modified Fischer and McClain et al. system as applied to claims 17 and 26 above, and further in view of Applicant's Admitted Prior Art (hereinafter AAPA).

As per claims 18 and 27, the modified Fischer and McClain et al. system discloses the use of other digital signature algorithms (see Fischer column 3 lines 56-60) but fails to explicitly disclose the use of an elliptical curve digital signature algorithm.

However, AAPA teaches that an elliptical curve digital signature algorithm is a common way to generate a digital signature (see paragraph 146 [page 26 line 32-36]).

At the time of the invention it would have been obvious to a person of ordinary skill in the art to use an elliptical curve digital signature algorithm because doing so is a common way of generating a digital signature.

7. Claims 19, 20, 28, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over the modified Fischer and McClain et al. system in view of AAPA as applied to claim 18 and 27 above, and further in view of Wang (US 6594759).

As per claims 19, 20, 28 and 29, the modified Fischer and McClain et al. system in view of AAPA discloses the chip being tamper resistant (see Fischer column 3 lines 31-38), but fails to explicitly disclose the random number generator is inaccessible from outside the computer chip.

However, Wang teaches that the random number generator can be used solely by a computer chip (see column 13 line 49 through column 14 line 6).

At the time of the invention it would have been obvious to a person of ordinary skill in the art to make the random number generator of the modified Fischer, McClain et al., and AAPA system be inaccessible from the outside.

Motivation to do so would have been to increase the security of the system.



***Response to Arguments***

8. Applicant's arguments with respect to claims 12-37 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL PYZOCHA whose telephone number is (571)272-3875. The examiner can normally be reached on 7:00am - 4:30pm first Fridays of the bi-week off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MJP

/Emmanuel L. Moise/  
Supervisory Patent Examiner, Art Unit 2137